OIPE

ENTER

DATE: 03/04/2002
TIME: 14:46:32

RAW SEQUENCE LISTING
PATENT APPLICATION   US/10/077,176

Input Set : **A:\433480_1.txt**
Output Set: **N:\CRF3\03042002\J077176.raw**

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  4  <110> APPLICANT: Brachmann, Rainer
  6  <120> TITLE OF INVENTION: ENGINEERED OPEN READING FRAME FOR P53
  9  <130> FILE REFERENCE: 004255.00008
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C--> 11 **<141> CURRENT FILING DATE: 2002-02-19**
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 13  <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 16  <211> LENGTH: 1182
 17  <212> TYPE: DNA
 18  <213> ORGANISM: Artificial Sequence
 20  <220> FEATURE:
 21  <223> OTHER INFORMATION: Produced by genetic engineering
 23  <400> SEQUENCE: 1
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 25  gacctgtgga aattgcttcc tgaaaacaac gttctgtccc cattgcctag tcaagcaatg    120
 26  gatgatttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccaggccca    180
 27  gatgaagctc cacgaatgcc agaggccgct ccaccggttg cccagcacc  agcagctct    240
 28  acaccggcgg ccccagctcc ggccccatcc tggcctctgt catcttctgt cccttccag     300
 29  aaaacctacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag    360
 30  tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgcgaagacc    420
 31  tgcccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg    480
 32  gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag    540
 33  cgctgctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac    600
 34  ctacgcgtgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat    660
 35  gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt    720
 36  tcatgcatgg gcggcatgaa ccggcggccg atcctgacca tcatcactct cgaggattcc    780
 37  tcaagtaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg cccgggccgc    840
 38  gatcgccgga ccgaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca    900
 39  ccaagaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag    960
 40  aaaacctttgg acggagaata tttcacccttt cagatccgtg gccgtgagcg gttcagatg    1020
 41  ttccgagagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga    1080
 42  ggcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat    1140
 43  aaaaaactga tgttcaagac cgaaggtcct gactcagact ga                       1182
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 47  <212> TYPE: DNA
 48  <213> ORGANISM: Artificial Sequence
 50  <220> FEATURE:
 51  <223> OTHER INFORMATION: Produced by genetic engineering
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 55  gatctgtgga agcttcttcc tgaaaacaac gttctgtccc cattgcctag tcaagcaatg    120
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file: C: Crf3 Outhold VsrJ077176.htm

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/077,176

DATE: 03/04/2002
TIME: 14 46 32

Input Set : A:\433480_1.txt
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56  gatgatttga tgctgagccc agacgatatt aacaatggt tcactgagga tccaggccc    180
57  gatgaagctc cacgaatgcc agaggccgct ccaccggttg ccccagcacc agcagctct    240
58  acaccggcag cccccagctcc ggccccatcc tggcctctgt catcttctgt cccttccag    300
59  aaaacctacc aggtcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag    360
60  tgtgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgcgaagacc    420
61  tgcccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg    480
62  gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag    540
63  cgctgctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac    600
64  ctacgcgttg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat    660
65  gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt    720
66  tcatgcatgg gcggcatgaa ccggcggccg atcctgacca tcatcactct cgaggattcc    780
67  tcaggtaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg cccggccggc    840
68  gatcgccgga ccgaagagga gaatctccgg aagaaaggtg agcctccacca cgagctgcca   900
69  ccaggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag    960
70  aaacctttgg acggagaata tttcaccctt cagatccgtg gccgtgagcg gttcgagatg   1020
71  ttccagagc tgaatgagc cttagaactt aaggatgccc aggctggtaa ggagccagga    1080
72  agcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat   1140
73  aaaaaactga tgttcaagac cgaaggtcct gactcagact ga                      1182
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75 <210> SEQ ID NO: 3
76 <211> LENGTH: 1181
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Produced by genetic engineering
83 <400> SEQUENCE: 3

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85  gatctgtgga agcttcttcc tgaaaacaac gttctgtccc cattgcctag tcaagcaatg   120
86  gatgatttga tgctgagccc agacgatatt gaacaatggt tcactgagga tccaggccca   180
87  gatgaagctc cacgaatgcc agaggccgct ccaccggttg ccccagcacc agcagctct    240
88  acaccggcag cccccagctcc ggccccatcc tggcctctgt catcttctgt ccttccccag   300
89  aaaacctacc aggtcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag   360
90  tgtgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgcgaagacc    420
91  tgcccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg   480
92  gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag   540
93  cgctgctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac   600
94  ctacgcgttg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat   660
95  gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt   720
96  tcatgcatgg gcggcatgaa ccggcggccg atcctgacca tcatcactct cgaggattcc    780
97  tcaggtaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg cccggccggc   840
98  gatcgccgga ccgaagagga gaatctccgg aagaaaggtg agcctccacca cgagctgcca   900
99  ccaggaagca ctaagcgagc actgccaaac aacacgagct cttctccaca gccaaagaag   960
100 aaacctttgg acggagaata tttcaccctg cagatccgtg gccgtgagcg gttcgagatg  1020
101 ttccagagc tgaatgagc cttagaactt aaggatgccc aggctggtaa ggagccagga    1080
102 agcagccggg cccattcgtc tcacctgaag tccaaaaagg gtcagtctac tagtcgccat   1140
103 aaaaaactga gttcaagacc gaaggtcctg actcagactg a                       1181
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105 <210> SEQ ID NO: 4
106 <211> LENGTH: 1182
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence

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110 <220> FEATURE:
111 <223> OTHER INFORMATION: Produced by genetic engineering
113 <400> SEQUENCE: 4
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115 gaccttgtgga aattgcttcc tgaaaaacaac gttctgtccc cattgctag tcaagcaatg   120
116 gatgatttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccagcgcca   180
117 gatgaagctc cacgaatgcc aagagccgctc ccaccggttg cccagcacc agcagctcct   240
118 acaacggcgg cccagctcc ggccccatcc tggcctctgt catcttctat ccctteegag   300
119 aaaacctaca agggcagcta cggtttccgt ctgggcttct tgcattctag aactgccag   360
120 tctgtttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgcgaagacc   420
121 taccagtcc aactgtggtc cgactccacc cctccacctg gtacacgttt ccgcgcaatt   480
122 gccatctaca agcagagcca gcacatgacg gaggtcgtac gtcactgtcc acaccatgag   540
123 cgctgctcag attctgatgg tctaggcgca ccacagcatc ttatccgagt ggaaggtaac   600
124 ctaccgctgg agtatctaga tgacccgaac actttcgac acagtgtggt ggtgccatat   660
125 gagccaccag aagttggct tgactgcacc accatccact acaactatat gtgtaacagt   720
126 tcatgcatgg gcggcatgaa ccgggcggcg atcctgacca tcatcactct cgaggattcc   780
127 tcagtaatc tcctaggacg gaattcctt gaggtgcgtg tttgtgcatg cccgggcggc   840
128 gatcgccgga ccgaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca   900
129 ccaggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag   960
130 aaacctttgg acggagaata tttcaccctt cagatccgtg gccgtgagcg gttcgagatg   1020
131 ttccgagagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga   1080
132 agcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat   1140
133 gaaaaactga tgttcaagac cgaaggtcct gactcagact ga   1182
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140 <220> FEATURE:
141 <223> OTHER INFORMATION: Produced by genetic engineering
143 <400> SEQUENCE: 5
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145 accttgtggaa attgcttcct gaaaacaacg ttctgtcccc attgcctagt caagcaatag   120
146 atgatttgat gctgtcccca gacgatattg aacaatggtt cactgaagat ccaggcccag   180
147 atgaagctcc acgaatgcca gagccgctc caccggttgc cccancacca gcagctccta   240
148 cacccggcggc cccagctccg gccccatcct ggcctctgtc atcttctatc ccttcccaga   300
149 aaacctacca gggcagctac ggtttccgtc tgggcttctt gcattctgaa actgccagt   360
150 ctgttacttg tacgtactct ccagccctta acaagatgtt ttgccaactc gcgaagacct   420
151 gcccagtcca actgtggtc gactccacc ctccacctgg tacacgttt ccgcgcaatg   460
152 ccatctacaa gcagagccag cacatgacgg aggtcgtacg acgtgtcca caccatgagc   540
153 gctgctcaga ttctgatggt ctaggcgcac cacagcatct tatccgagtg gaaggtaac   600
154 tacccgctgga gtatctagat gacccgaaca ctttcgaca cagtgtgtg gtgccatatg   660
155 agccaccaga agttggctct gactgcacca ccatccacta caactatatg tgtaacagtt   720
156 catgcatggg cggcatgaac cagcggcga tcctgaccat catcactctc gaggattcct   780
157 cagttaatct cctaggacgg aattccttg agtgcgtgt ttgtgcatgc ccgggcggcg   840
158 atcgccggac cgaagaggag aatctccgga agaaaggtga gcctcaccac gagctgccac   900
159 caggaagcac taagcgagca ctgccaaaca acaccagcag ttctccacag ccaaagaaga   960
160 aacctttgga cggagaatat ttcacccttc agatccgtgg ccgtgagcgg ttcgagatgt   1020
161 tccgagagct gaatgaggcc ttagaactta aggatgccca ggctggtaag gagccaggaa   1080
162 gcagccgtgc tcatagcagc cacctgaagt ccaaaaaggg tcagtctacc tcccgccata   1140

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Input Set : **A:\433480_1.txt**
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168 <213> ORGANISM: Artificial Sequence
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171 <223> OTHER INFORMATION: Produced by genetic engineering
173 <400> SEQUENCE: 6
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176 gatgattttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccaggccca   180
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181 tgcccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg    480
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183 cgctgctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac    600
184 ctacgcgtgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat    660
185 gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt    720
186 tcatgcatgg gcggcatgaa ccggcggccg atcctgacca tcatcactct cgaggattcc    780
187 tcagttaatc tcctaggacg gaattccttt gaggtgcacg tttgtgcatg cccggcccgc    840
188 gatcaccgga ccgaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca   900
189 ccaggaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag   960
190 aaacctttgg acggagaata tttcacccttt cagatccgtg gccgtgagcg gttcgagatg  1020
191 ttccgagagc tgaatgaggc cttagaactt aaggatgccc aggctggtaa ggagccagga   1080
192 ggcaccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat    1140
193 aaaaaactga tgttcaagac cgaaggtcct gactcagact ga                       1182
195 <210> SEQ ID NO: 7
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197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Produced by genetic engineering
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206 gatgattttga tgctgtcccc agacgatatt gaacaatggt tcactgaaga tccaggccca   180
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211 tgcccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg    480
212 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag    540
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215 gagccaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt    720
216 tcatgcatgg gcggcatgaa ccggcggccg atcctgacca tcatcactct cgaggattcc    780
217 tcagttaatc tcctaggacg gaattccttt gaggtgcgtg tttgtgcatg cccggcccgc    840
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/077,176

DATE: 03/04/2002
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Input Set : A:\433480_1.txt
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220  aaacctttgt acggagaata tttcaccctt cagatccgtg gccgtgagcg gttcgagatg   1020
221  ttccgagagc tgaatgaggc cttagaactt aagaatgccc aggctggtaa ggagccagga   1080
222  ggcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat   1140
223  aaaaaactga tgttcaagac cgaaggtcct gactcagact ga                       1182

225  <210> SEQ ID NO: 8
226  <211> LENGTH: 1182
227  <212> TYPE: DNA
228  <213> ORGANISM: Artificial Sequence
230  <220> FEATURE:
231  <223> OTHER INFORMATION: Produced by genetic engineering

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236  gatgattttga tgctgtcccc agacgatatt gaacaatggt ccccagcacc agcagctcct    180
237  gatgaagctc cacgaatgcc agaggccgct ccaccgttg cccagcacc agcagctcct        240
238  acaccgacgg cccagctcc ggcccatcc tggctctgt catcttctgt cccttccag          300
239  aaaacctacc agggcagcta cggtttccgt ctggcttct tgcattctgg aactgccaag       360
240  tctgttactt gtacgtactc tccagcctt aacaagatgt tttgccaact cgcgaagacc       420
241  tacccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt acaccatgag      480
242  gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgctgtcc acaccatgag     540
243  cgctgctcag attctgatgg tctggcgcta ccacagcatc ttatccgagt ggaaggtaac     600
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247  tcaggtaatc tcctaggacg gaattccttt gaggtgtgcg ttcgtacatg ccccggccgc      840
248  gatcgccgga ccgaagagga gaatctccgg aagaaaggtg agcctcacca cgagctgcca     900
249  ccaaaaagca ctaagcgagc actgccaaac aacaccagca gttctccaca gccaaagaag    960
250  aaacctttgg acggagaata tttcaccctt cagatccgtg gccgtgagcg gttcgagatg   1020
251  ttccgagagc tgaatgaggc cttagaactt aagatgccc aggctggtaa ggagccagga    1080
252  ggcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctcccgccat   1140
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256  <211> LENGTH: 1182
257  <212> TYPE: DNA
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260  <220> FEATURE:
261  <223> OTHER INFORMATION: Produced by genetic engineering

263  <400> SEQUENCE: 9
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266  gatgattttga tgctgtcccc agacgatatt gaacaatggt ccccagcacc agcagctcct    180
267  gatgaagctc cacgaatgcc agaggccgct ccaccgttg cccagcacc agcagctcct        240
268  acaccgacgg cccagctcc ggcccatcc tggctctgt catcttctgt cccttccag          300
269  aaaacctacc agggcagcta cggtttccgt ctggcttct tgcattctgg aactgccaag       360
270  tctgttactt gtacgtactc tccagcctt aacaagatgt tttgccaact cgcgaagacc       420
271  tacccagtcc aactgtgggt cgactccacc cctccacctg gtacacgtgt acaccatgag      480
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3 4 02

file: C: Crf3 Outhold VsrJ077176.htm

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/077,176

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Input Set : A:\433480_1.txt
Output Set: N:\CRF3\03042002\J077176.raw

L:11 M:270 C: Current Application Number differs. Replaced Current Application N°
L:11 M:271 C: Current Filing Date differs. Replaced Current Filing Date
L:2328 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2332 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2336 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2340 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2344 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2348 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2352 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2356 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2360 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2364 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2368 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2372 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2376 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2380 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2384 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2388 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2392 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2396 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2400 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2404 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2408 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2412 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2416 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2420 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71
L:2424 M:341 W: (46) "n" or "Xaa" used. for SEQ ID#:71

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